Instructions for completing DA Form 3662

Most of the blocks on the form are self–explanatory. Entries should be made in all blocks. Blocks which are not applicable or the information is unknown should be notated as such. The items listed below are listed for further clarification. If you don't have the information for an item, leave the item blank. Do not guess any of the parameters on the form.

It is the responsibility of the Armament Personnel at the FARP to fill out this section. The missile data should be recorded prior to upload:

a. Item 1. Enter in the location where the missile firing/ attempt occurred.
b. Item 2. Enter the date when the missile firing/ attempt took place in month/day/year format (MM/DD/YYYY).
c. Item 3. Enter the serial number of the missile. The serial number should be a 6 digit numeric entry.
d. Item 4. Enter the lot number of the missile. The lot number should be 13 or 14 alphanumeric digits. The first three digits should be alpha character. The next consecutive two digits (fourth and fifth) should be numeric characters. The sixth digit should be an alpha character.
e. Item 5. Check the block that indicates the launch platform used. If it is not listed, use the "other" field to designate the appropriate platform.
f. Item 6. Enter the Aircraft (A/C) tail number. If there are dashes in the A/C tail number, enter it without dashes.
g. Item 7. Enter the call sign for the A/C.
h. Item 8. Enter the Unit Identification Code (UIC) for the firing unit.
i. Item 9. Enter the name of the unit attempting the firing.
j. Item 10. Enter the serial number of the missile launcher. If there are dashes in the serial number, enter it without dashes.
k. Item 11. This block is used to describe the installation where the missile is uploaded for the firing attempt Check the block that indicates the position of the missile on the launcher when the firing attempt was made.
l. Item 12*. If the missile is equipped with an HMU (Health Monitoring Unit), enter the total number of hours displayed on the HMU indicating how many hours the missile has been carried on wing while the aircraft has earned flight hours.
m. Item 13*. If the missile is equipped with an HMU, enter the number of hours the HMU says the missile's seeker section was powered on.
n. Item 14*. If the missile is equipped with an HMU, enter the percentage of battery life remaining on the HMU.
o. Item 15*. If the missile is equipped with an HMU, enter the temperature the HMU says the missile was exposed to. Check the box to indicate whether the temperature was a pass (green light) or fail (red light) as displayed on the HMU.
p. Item 16*. If the missile is equipped with an HMU, enter the value displayed on the HMU for drop shock. Check the box whether the temperature was a pass (green light) or fail (red light) as displayed on the HMU.
q. Item 17. Enter any maintenance related events for the missile or launcher related to the firing event.

*Fields noted with an asterisk should only be completed if the missile is equipped with an HF HMU and the missile data was recorded prior to the missiles being uploaded onto the air craft.

It is the responsibility of the Pilot and/or Gunner to fill out this section:

r. Item 18. Enter in the firing agency attempting the firing. (For example, U.S. Army, U.S. National Guard, U.S. Army Reserved, U.S. Navy, U.S. Marines, etc.)

s. Item 19. Check the block that best describes why the firing attempt was made. If other, explain.

t. Item 20. Check the appropriate block for the wind velocity and list the directional vector. The directional vector should be submitted in degrees. If information for wind speed is only available in Knots, the following conversions can be used. 0-5 MPH = 0-4.3 Knots; 5-10 MPH = 4.3-8.7 Knots; 10-15 MPH = 8.7-13.0 Knots; 15-20 MPH = 13.0-17.4 Knots; 20-30 MPH = 17.4-26.0; Over 30 MPH = Over 26.1 Knots

u. Item 21. Check the block that most appropriately describes the weather at the time of firing.

v. Item 22. Enter the ambient temperature at the firing location and check the block to indicate if the temperature is recorded as Centigrade or Fahrenheit. This entry must be a numeric value.

w. Item 23. Indicate whether visible obscurants were natural or induced. If no obscurants were observed enter 'none' in the other field.

x. Item 24. Enter the number of previous LONGBOW missile firings the gunner has made.

y. Item 25. Check the appropriate block for Target Handover: Target Acquisition Designator System (TADS), Internet Data Modem (IDM), Integrated Helmet And Display Sight System (IHADDS), Fire Control Radar (FCR), Radio Frequency Handover (RFHO)

z. Item 26. If the missile was fired using an IDM handover, enter in the A/C tail number, the A/C call sign, the source range to target (in kilometers), and the position confidence number.

aa. Item 27. The target offset angle is the difference between the A/C azimuth reference line and the Target Acquisition Designator System (TADS) pointing angle. It can be read directly from the TADS pointing angle (^) open caret relative to the lubber line (for example, TADS tracking target 5 degrees to the right of the lubber line, then you would enter 5 right).

bb. Item 28. Check block for the appropriate firing mode used.

cc. Item 29. Enter the estimated time between A/C target acquisition and trigger pull.

dd. Item 30. Select the appropriate target category and enter in the speed if moving is selected. The speed must be entered in miles per hour (mph).

ee. Item 31. Check block for target type used. If other, enter target type.

ff. Item 32. Enter the distance to the target from launch platform in kilometers.

gg. Item 33. Check tracking method used.

hh. Item 34. Check block for boresight used.

ii. Item 35. Enter the A/C altitude.

jj. Item 36. Enter the speed of the A/C. The speed must be entered in knots.

kk. Item 37. Check the box to indicate if cockpit video is available.

ll. Item 38. Check block indicating if the prelaunch power on BIT indicated a pass or failure.

mm. Item 39. Check block indicating if the prelaunch manual initiated BIT indicated a pass, failure, or was not preformed.

nn. Item 40. Check block indicating if the prelaunch continuous BIT indicated a pass or failure.

oo. Item 41. Check the block to indicate if the missile launched or not.

pp. Item 42. Check the appropriate box indicating the impact of the missile. If the missed target block is checked, complete all appropriate categories. (For example, if the missile over flies the target, impacting 5,000 meters from the launcher, to the right of the target, the long and right blocks would be checked, and the "Estimated Range from Launcher to Impact Point" would be 5 kilometers.) If the "Hit Target" block is checked and the "Range from Launch Platform to Target" block is populated, them the "Estimated Range from Launcher to Impact" block should be left blank.

qq. Item 43. Check the appropriate block indicating if the warhead detonated or not.

rr. Item 44. If the target was missed, check block that most accurately describes why.

ss. Item 45. If the target was missed, describe flight below, especially missile behavior. This block must be filled out in the case of a target miss for any reason. Provide as much information as possible, using the reverse side of the form if necessary.

tt. From: Enter the complete mailing address for the unit attempting to fire the missile.

uu. At the bottom of the form, enter in the name and grade of the gunner and pilot as wells as a DSN phone number and the date this form was filled out. The DSN phone number must be in the format XXX-XXXX.